

### ABSTRACT

A method of estimating the measuring accuracy of each of a plurality of dispensing meters which dispense fluid from a fluid dispensing system including a storage tank includes measuring a volume of fluid dispensed through each of the plurality of dispensing meters during a plurality of time intervals during which fluid is simultaneously dispensed through the plurality of dispensing meters; measuring a volume of fluid dispensed from the storage tank during each of the plurality of time intervals; and calculating a fraction of the volume of fluid dispensed through each of the dispensing meters by performing a regression analysis with respect to the measured volume of fluid dispensed from the storage tank equated with a fraction of a sum of the measured volumes of fluid dispensed through the plurality of dispensing meters during each of the plurality of time intervals. The fraction of the sum of the measured volumes of fluid dispensed through the plurality of dispensing meters equals the sum of the fractions of the measured volumes of fluid dispensed through each of the dispensing meters on average over the plurality of time intervals.

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